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ANNEX

ANNEX III

LIMIT VALUES AND OTHER DIRECTLY RELATED PROVISIONS (ARTICLE 16)

A. LIMIT VALUES FOR OCCUPATIONAL EXPOSURE

Name of agent	EC No ^a	CAS No ^b	Limit values						Notation	Transitional measures
			8 hours ^c			Short-term ^d				
			mg/m ^{3e}	ppm ^f	f/ml ^g	mg/m ^{3e}	ppm ^f	f/ml ^g		
Hardwood-dusts	—	—	2 ^h	—	—	—	—	—	—	Limit value 3 mg/m ³ until 17 January 2023
Chromium (VI) compounds which are carcinogens within the meaning of point (i) of Article 2(a)	—	—	0,005	—	—	—	—	—	—	Limit value 0,010 mg/m ³ until 17 January 2025 Limit value: 0,025 mg/m ³ for

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b CAS No: Chemical Abstract Service Registry Number.

c Measured or calculated in relation to a reference period of eight hours time-weighted average (TWA).

d Short-term exposure limit (STEL). A limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified.

e mg/m³ = milligrams per cubic metre of air at 20 °C and 101,3 kPa (760 mm mercury pressure).

f ppm = parts per million by volume in air (ml/m³).

g f/ml = fibres per millilitre.

h Inhalable fraction: if hardwood dusts are mixed with other wood dusts, the limit value shall apply to all wood dusts present in that mixture.

i Respirable fraction.

j Substantial contribution to the total body burden via dermal exposure possible.

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(as chromium)										welding or plasma cutting processes or similar work processes that generate fume until 17 January 2025
Refractory ceramic fibres which are carcinogens within the meaning of point (i) of Article 2(a)	—	—	—	0,3	—	—	—	—		
Respirable crystalline silica dust	—	0,1 ⁱ	—	—	—	—	—	—		

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Benzene	200-753-71-43-2	3,25	1	—	—	—	—	—	—	skin ^j
Vinyl chloride monomer	200-831-75-01-4	2,6	1	—	—	—	—	—	—	—
Ethylene oxide	200-849-75-21-8	1,8	1	—	—	—	—	—	—	skin ^j
1,2-Epoxypropane	200-879-75-56-9	2,4	1	—	—	—	—	—	—	—
Trichloroethylene	201-167-79-01-6	54,7	10	—	164,1	30	—	—	—	skin ^j
Acrylamide	201-173-79-06-1	0,1	—	—	—	—	—	—	—	skin ^j
2-Nitropropane	201-209-79-46-9	18	5	—	—	—	—	—	—	—
o-Toluidine	202-429-95-53-4	0,5	0,1	—	—	—	—	—	—	skin ^j
4,4'-Methylenedianiline	202-974-101-77-9	0,08	—	—	—	—	—	—	—	skin ^j
Epichlorohydrin	203-439-86-89-8	1,9	—	—	—	—	—	—	—	skin ^j
Ethylene dibromide	203-444-106-93-4	0,8	0,1	—	—	—	—	—	—	skin ^j
1,3-Butadiene	203-450-106-99-2	2,2	1	—	—	—	—	—	—	—
Ethylene dichloride	203-458-107-06-2	2,2	2	—	—	—	—	—	—	skin ^j
Hydrazine	206-114-302-01-2	0,13	0,01	—	—	—	—	—	—	skin ^j
Bromoethene	209-800-593-60-2	4,4	1	—	—	—	—	—	—	—

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Diesel engine exhaust emissions			0,05 ^k							The limit value shall apply from 21 February 2023. For underground mining and tunnel construction the limit value shall apply from 21 February 2026.
Polycyclic aromatic hydrocarbons mixtures, particularly those containing benzo[a]pyrene, which are carcinogens									skin ⁱ	

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within the meaning of this Directive									
Mineral oils that have been used before in internal combustion engines to lubricate and cool the moving parts within the engine								skin ^j	
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B. OTHER DIRECTLY RELATED PROVISIONS

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